

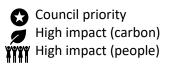


STAFF REPORT – MAY 2024 CLIMATE ACTION UPDATE TO COUNCIL

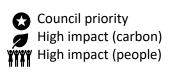
The actions are implemented across several Town departments. This report was produced by the Town's Office of Sustainability and Resilience, with department support.

May 31, 2024

Buildings + Energy Actions			
Action	Benefits	Status / Target Date ✓ August 18, 2023 (Sustainability) Project well-received but not awarded; Town encouraged to reapply next cycle	
1. Apply for Orange County Climate Action Grant to Upgrade Hargraves Outdoor Basketball Court to LED Lighting	If awarded, grant would improve outdoor lighting quality and provide the following lifetime benefits: • 140k kWh saved • 99.3 metric tons saved		
2. Participate in 2023 Solarize the Triangle Program	Program generated the following benefits in Chapel Hill from 2022-23: • 429 kW solar • 189 kWh battery • \$1.14M econ. devp. • 805, 217 lbs carbon saved	✓ January 31, 2024	
3. Partner with Central Pines to Submit EPA <u>Climate</u> <u>Pollution Reduction</u> <u>Grant</u> Priority Climate Action Plan	The Priority Climate Action Plan (PCAP) includes county- level GHG inventories, initial priority actions, and other information for the 8 county Central Pines planning area. This is the first step to a more comprehensive regional climate action plan (due fall 2025).	✓ March 1, 2024 (Sustainability)	

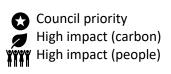


Action	Benefits	Status / Target Date		
4. Upgrade to LED Lighting at Public Works Fleet and Field Operations Buildings	Project numbers and estimated savings: • 340 lights upgraded • \$3,325 saved yearly • 316 MTCO2e saved over life of project	✓ March 29, 2024 (Sustainability)		
5. Partner with Central Pines to Support NC DEQ's \$199.9M Climate Pollution Reduction Implementation Grant Application	If awarded, will provide several competitive grant opportunities for GHG reduction and up to \$15.4M to Central Pines for building efficiency and transportation programs that benefit Chapel Hill and our region	✓ April 1, 2024 (Sustainability) State expects to hear from EPA by summer		
6. Conduct Sustainable Town Facilities Assessment (solar, battery storage, EV charging, rainwater capture)	Identifies investment opportunities to make Town facilities more sustainable and resilient; positions the Town well for federal Climate Pollution Reduction Grant and other opportunities	RFQ released in May FY25, Q3 (orig. FY24, Q2)		
7. Through Solarize the Triangle, Install Rooftop Solar on 5 Affordable Housing Partner Homes	Installs approximately 4 kW of solar on up to 5 income- eligible properties identified through our affordable housing partners	Finalizing list of actionable projects with Central Pines and housing partners FY25, Q2 (orig. FY24, Q4)		
8. Begin Piloting Weatherization Gap Program	Enhances weatherization work within Community Development Block Grant housing rehabilitation program and provides key operational insights for possible program expansion	Project put on hold to align with Central Pines' building efficiency program through EPA Climate Pollution Reduction Grant (item 5 above) Target date: TBD		

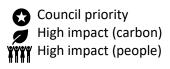


Action	Benefits	Status / Target Date
9. Scope Orange County Solar Farm	Identifies the costs/benefits/options of a	Sustainability staff coordinating with
Partnership	countywide partnership to build a utility-scale solar farm that helps meet	Advanced Energy and municipal partners to scope solar opportunity
	municipal renewable energy goals	FY24, Q4 (orig. Q3)

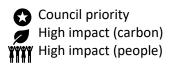
Transportation + Land Use			
Action 1. Place Order for	Benefits Reduces fleet emissions and	Status / Target Date ✓ January 2024 (Transit)	
up to 7 Additional Electric Transit Buses	provides operational insights into fleet electrification	(Transit) Delivery expected in 12-16 months	
2. Take Delivery of 7 Additional Electric Transit Buses	Each electric bus reduces fleet emissions by 40%, for a total emissions reduction of 360 metric tons per year; the fleet now has 11 total EV buses	✓ January 2024 (Transit) Buses received and in operation	
3. Develop Fleet Electrification Purchasing Plan	Prepares Town for continued transition to EVs and EV infrastructure through the annual vehicle replacement cycle and other investments	✓ January 2024 (Public Works & Sustainability)	
4. Purchase 2-5 More Electric Fleet Vehicles in FY24	Five EVs were purchased and the replacements produced 53% or lower carbon emissions and save about 8.3 metric tons per year	✓ January 2024 (Public Works & Sustainability)	



Action	Benefits	Status / Target Date
5. Develop Conditional Zoning Climate Action Worksheet for Applicants	Provides zoning applicants with guidance on how to develop a project-specific climate action plan that follows the Council's updated policy for new development	February 12, 2024 (Planning & Sustainability)
6. Apply for Energy Efficiency and Conservation Block Grant (EECBG) for E-Bikeshare Program	If approved, grant would provide \$129,010 from the Department of Energy to support an e-bikeshare pilot program for residents and staff	✓ May 14, 2024 (Sustainability) Town expects to hear from the Department of Energy by June
7. Complete Feasibility Study of the Everywhere-to- Everywhere Greenway Network	Enables future projects that reduce emissions by providing transportation options that don't require a car	Office of Mobility and Greenways finalizing contract documents FY25
8. Begin Piloting New Wayfinding Strategy	Supports build-out of Town-wide Mobility Plan and reduces emissions by increasing use of existing trails, paths, bike lanes	Office of Mobility and Greenways and Sustainability finalizing options for pilot; project timing now in sync with Downtown wayfinding study FY25, Q4 (orig. FY24, Q4)
9. Design Bolin Creek Greenway Extension (Umstead to Estes Ext.)	Reduces emissions by providing more transportation options that don't require a car	Office of Mobility and Greenways starting design June 2024 FY25
10. Design Estes Drive Extension (MLK to Carrboro)	Reduces emissions by providing more transportation options that don't require a car	Office of Mobility and Greenways signing contract, kicking off project summer 2024 FY25

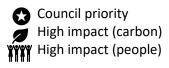


Action	Benefits	Status / Target Date
11. Design and Construction of	Reduces emissions by providing more	Office of Mobility and Greenways signing
Cameron Ave	transportation options that	contract, kicking off
Protected Bike	don't require a car	project summer 2024
Lanes	#11#1	FY25
12. Design of Campus	Reduces emissions by providing more	Office of Mobility and Greenways to prepare
Greenway	transportation options that	bid for design
	don't require a car	FY25
		F125
13. Install 20 EV Charging Stations at New Rosemary	Enables EV charging and reduces vehicle emissions by displacing gasoline	Sustainability staff coordinating installation by July
Parking Deck	(projected benefits TBD)	FY25, Q1
•		(orig. FY24, Q4)
14. Streamline EV	Reduces permitting soft costs	Sustainability staff
Charging Station Permitting Process	and enables faster deployment of public and	coordinating internal reviews
in Collaboration	private EV charging stations	E/25 04
with Planning and Inspections	to support community-wide transition to electric vehicles	FY25, Q1 (orig. FY24, Q3)
	**************************************	(* 5 / (*)
15. Work with	Enables bus rapid transit	Transit waiting to hear
NCDOT to Secure Funding for North-	project to move forward	from NCDOT about SPOT funding request
South BRT Project		EV24 04
		FY24, Q4
16. Participate in TOD and LUMO	Provides Town with updated sustainable development and	Sustainability and Planning staff
Rewrite Visioning	redevelopment practices	coordinating with
	(projected benefits TBD)	consultants on
		sustainable development practices
		that support Town's Climate Action Plan
		Cilillate Action Plan
		Ongoing



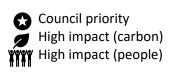
Action	Benefits	Status / Target Date
17. Begin Piloting Landscaping Crew with All-Electric Equipment	Reduces emissions from landscaping activities and provides operational insights into landscape equipment electrification	Parks & Rec staff taking delivery of equipment orders, and vendor reporting delays FY25, Q1 (orig. FY24, Q3)
18. Begin Piloting EV Refuse Vehicle	Reduces emissions from vehicle and provides operational insights into heavy duty vehicle electrification and fast charging infrastructure	Public Works taking delivery of vehicle in August; Sustainability coordinating charger installation now FY25, Q1 (orig. FY24, Q4)

Water, Wastewater & Natural Resources			
Action 1. Review of Town Stormwater Regulations	Benefits Informs Council policy on sustainable stormwater infrastructure and regulations	Status / Target Date May 1, 2024 (Public Works) 100-year regulation approved; other recommendations will follow with LUMO Rewrite	
2. Pilot Enhanced Composting and Recycling at Town Hall and Fire Station #1	Reduces waste and provides operational insights into waste reduction programming; project split into 2 phases	Sustainability staff now completing phase 2 by adding composting bins and recycling options FY25, Q1 (phase 2) Phase 1 FY24, Q2)	
3. Participate in Countywide Solid Waste Master Planning	Prepares Orange County to meet zero waste operations goal by 2045	Plan being revised based on Orange Co. BOCC feedback; draft to be shared at next SWAG quarterly meeting FY25, Q2 (orig. FY23, Q4)	



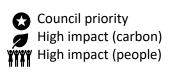
Action	Benefits	Status / Target Date
4. Implement Approved Recommendations	Mitigates stormwater flooding through targeted infrastructure investments	Town staff are working on a response plan
for Lower Creek Working Group		FY24, Q4

Resiliency			
Action	Status / Target Date		
1. Conduct "Lights Out for Birds" Outreach	Supports biodiversity by helping community members ensure safe passage for birds during the fall migration	✓October 12, 2023 (Sustainability & Comms)	
2. Apply to Department of Energy Planning Grant to Expand Town Resilience Hubs (Central Pines Supported)	If awarded, grant will help (1) identify climate impacts through community partner/resident engagement, and (2) assess the potential for energy upgrades to Town community centers	✓ Nov 10, 2023 (Sustainability, Emergency Mgmt, Parks & Library) \$500k planning grant awarded to Central Pines (see grants section below)	
3. Launch Year 3 of Leave Your Leaves Campaign	Creates fertile soil and healthy trees, supports local wildlife, reduces flooding and improves water quality, and reduces emissions; and Year 3 highlights include: • 165 new pledges (3x our annual goal) • Carrboro's participation	✓ December 31, 2023 (Sustainability & Public Works)	



Action 4. Plant Trees in Historically Underserved Neighborhoods	Benefits Worked with residents and Public Housing to plant 40 trees in Northside and Pine Knolls, with a year of tree care support; funding provided by Orange County Climate Action Grant	Status / Target Date ✓ February 26, 2024 (Sustainability & Parks)
5. Expand Flood Alert System Sensor Technology	Enhances early warning system for low-lying areas of Town	Sustainability, Public Works, Technology Solutions staff selecting vendor and equipment FY24, Q1 (orig. FY24, Q4)
6. Evaluate Performance of Booker Creek Basin Park	Provides operational insights about the effectiveness of this stormwater infrastructure project	Public Works has selected a vendor to provide performance data; study will take 12 months FY25, Q4 (orig. FY24, Q4)

Grants Management				
Grant	Grantor	Amount	Match	Status
1. Plant Trees in Historically Underserved Communities	Orange County Community Climate Action Grant Program	\$40,000	TBD	✓ Completed: February 26, 2024
2. Install 10 EV Charging Stations at the Rosemary Parking Deck	NCDEQ, VW Settlement Program	\$25,000	TBD	Awarded and active Estimated Completion: FY25, Q1 Reporting: Quarterly



Grant	Grantor	Amount	Match	Status
3. EV Refuse Truck and Fast Charger	NCDEQ, Diesel Emissions Reduction Act (DERA)	\$297,400	\$313,498	Awarded and active Estimated Completion: FY25, Q1 Reporting: Quarterly
4. EV Refuse Truck and Fast Charger	Orange County Community Climate Action Grant Program	\$50,000	N/A	Awarded and active Estimated Completion: FY25, Q1 Reporting: Quarterly
5. Energy Efficiency and Conservation Block Grant Formula Allocation	US Department of Energy, EECBG Program	\$129,010	N/A	Awarded Estimated Completion: FY26 Reporting: TBD
6. Regional Resilience Hub Planning (Central Pines)	US Department of Energy, Energy Future Grants Program	\$88,235 (\$500k across 3 counties)	N/A	Awarded Estimated Completion: TBD Reporting: TBD
		\$629,645	\$313,498	